

Features



- 30kW High power density
- Bi-directional Power Conversion System
- Wall-mounted, making small footprint
- Split-phase supported
- Grid-support functions
- Virtual Synchronous Generator (VSG) technology optional for parallel off-grid application



Specification

Utility-interactive Mode

Battery charge/discharge voltage	200V~750V (350~750V Full Power)
Battery charge/discharge current	90A Max
AC voltage	480V(423V~528V)
AC current	36A
Nominal power	30kW
AC frequency	60Hz(59.5Hz~60.5Hz)
AC PF	Listed: 0.8~1 leading or lagging (Controllable) Actual: 0.1~1 leading or lagging (Controllable)

Stand-alone Mode

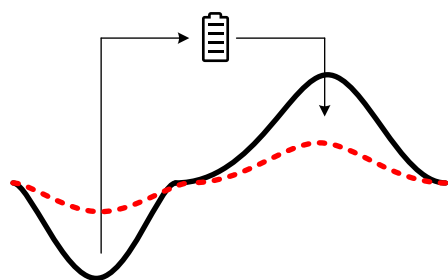
Battery discharge voltage	200V~750V (350~750V Full Power)
Battery discharge current	90A Max
AC output voltage	480V(±5% configurable)
AC output current	36A
Nominal AC output power	30kW(33kW max)
AC frequency	60Hz
AC output PF	Listed: 0.8~1 leading or lagging (Load-depend) Actual: 0.1~1 leading or lagging (Load-depend)
Overload Capability	105%~115% 10min;
	115%~125% 1min;
	125%~150% 200ms

Physical

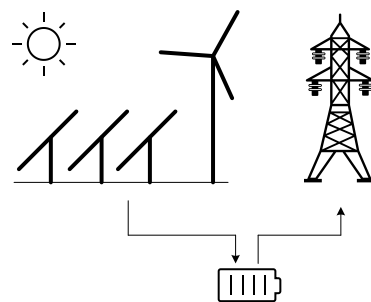
Cooling	Forced air cooling with replaceable fan module
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Noise	<65dB
Enclosure	IP32/NEMA1
Max elevation	3000m/10000feet (> 2000m/6500feet derating)
Operating temp.	-20°C to 60°C (De-rating over 45°C)
Humidity	0~95% (No condensing)
Size (W*H*D)	470*660*176mm/ 18.5*26*6.95 inches
Weight	43kg/95Lbs
Installation	Wall-mounted
Other	
Peak efficiency	97.3%
CEC efficiency	96.5%
Protection	OTP, AC OVP/UVP, OFP/UFP, EPO, AC Phase Reverse, Fan/Relay Failure, OLP, GFDI, Anti-islanding
Configurable protection limits	Upper/Lower AC Voltage/Frequency limit, Battery EOD voltage.
AC connection	3-Phase+N+PE 240V Split-phase (extra transformer required, derated to 17.3kW)
Isolation	Non-isolation
Certification	ETL listed conforming to UL1741/UL1741SA, CPUC RULE 21, IEEE1547

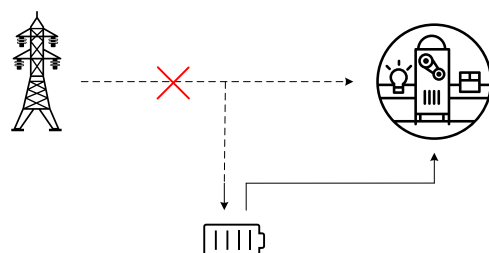
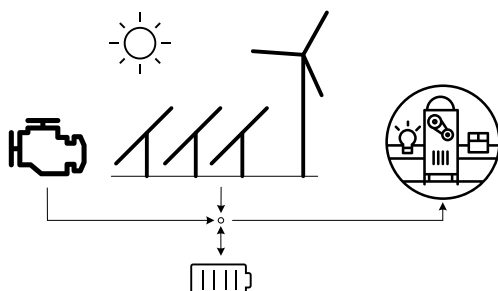
Applications



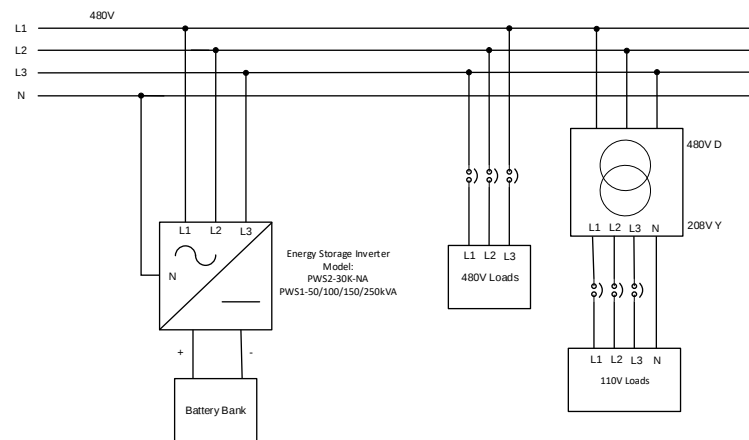
Peak Shifting/Demand Charge Management



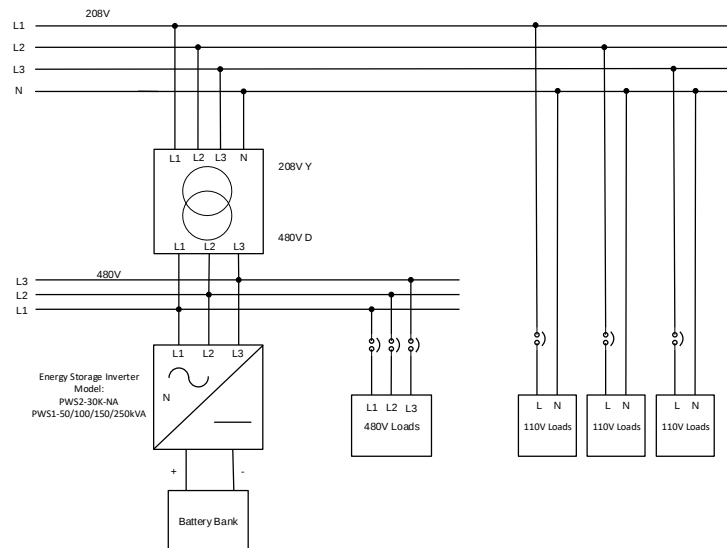
Customer Self Supply



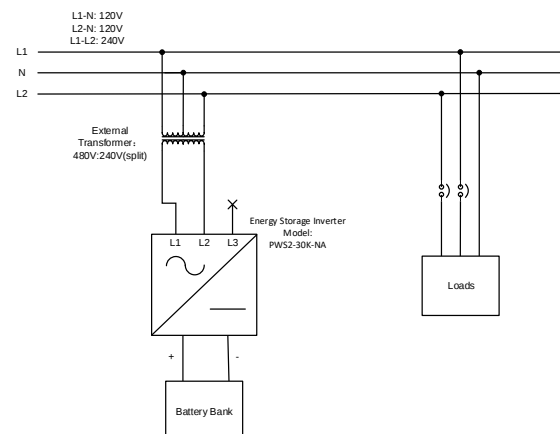
Distribution system connection patterns



480V distribution system connection



208V distribution system connection



240/120V split-phase system connection

Parallel operation connection patterns

